Module 7: Management Strategies and Potential ARARs

Module Objectives

- □ Define the term "ARARs," "applicable," "relevant and appropriate," "state ARAR," "to be considered," and "area of contamination"
- Compare and contrast compliance with ARARs with protectiveness
- Identify the single most important CERCLA ARAR
- Compare and contrast "disposal" with "land disposal"

Module Objectives

- Identify what constitutes placement or land disposal
- Explain the relationship between CERCLA and CWA Water Quality Standards, maximum contaminant levels, and maximum contaminant level goals.

History of ARARs

- 1985 NCP revisions
 - Compliance Policy
 - Addressed "How Clean is Clean"
 - Remedial actions must attain Federal ARARs
- SARA codified and expanded ARARs provision in 1986
 - More stringent state ARARs added
 - One waiver deleted, two added
 - MCLGs and WQC to be met when relevant and appropriate

Definition of ARARs

- □ Applicable or relevant and appropriate requirements pertain to any federal environmental law and any state environmental or facility siting law
- SARA requires compliance with ARARs at the <u>completion</u> of the remedial action for material remaining on site
- Only substantive requirements must be met on site
- Substantive and administrative requirements must be met off site
- Must be "promulgated" and "enforceable"

"Applicable"

- Directly and fully address the contaminant or situation
- Determined site-specifically
- Based on jurisdictional prerequisites of the law

"Relevant and Appropriate"

- Laws/regulations not binding to site situation but are sufficiently similar
- All or part of requirement may be relevant and appropriate
- Determinations made site-specifically, but often guided by national policy (e.g., MCLs)

State ARARs

- Promulgated standards
 - Those that are of generally applicability and legally enforceable
- More stringent than federal requirement
- Identified by the state in a "timely manner"
 - Should be a single point of contact within the State

"To Be Considered"

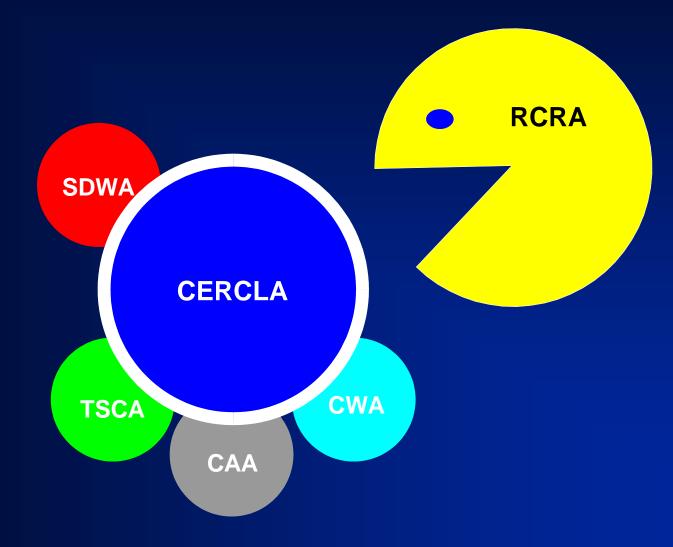
- Not ARARs
- □ Criteria, advisories, guidances
- Use as needed to ensure protection

ARARs and Protectiveness

- Although ARARs and protectiveness often related, not synonymous
- □ Can waive ARARs, not protectiveness
- ARARs may need to be supplemented or exceeded to ensure protection. Additionally, a one in a million point of departure is used if ARARs are unavailable or are not sufficiently protective
- TBCs used as appropriate in development of risk assessment

ARARs and Management Strategies

Major Federal ARARs



Major RCRA Disposal Regulations

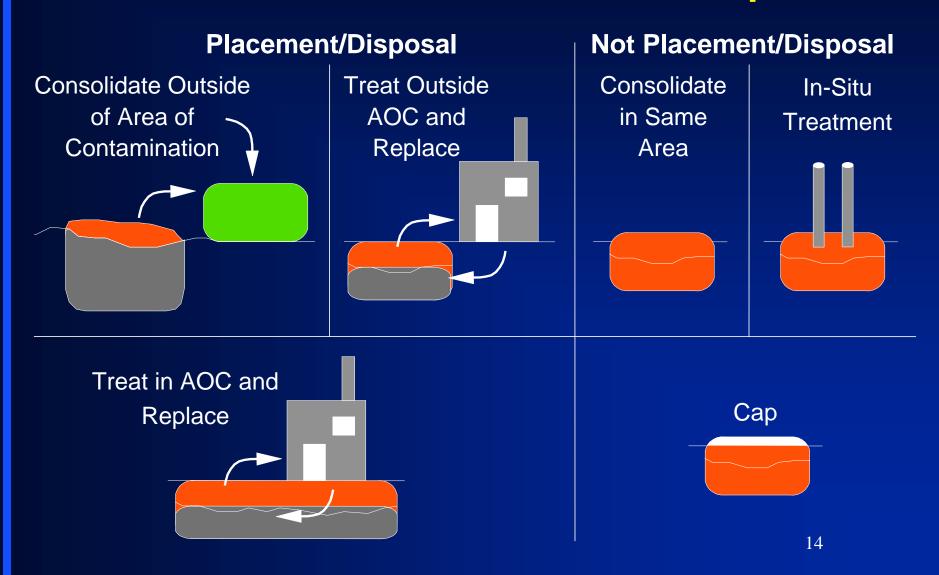
- Closure
- Minimum technology
- LAND DISPOSAL RESTRICTIONS
- Location requirements*
- □ Corrective action (subpart S)*
- □ Subtitle D*

* Additional requirements under development

Why is Disposal/Placement Important?

- Many regulations are triggered by "disposal" or "land disposal"
- Closure regulations are applicable if RCRA hazardous waste is disposed
- Land ban requirements are applicable when restricted RCRA waste is placed or "land disposed"

What Constitutes Placement/Land Disposal?



CWA Water Quality Criteria and Standards

- Water quality criteria are guidelines for protection of human health or aquatic life
- □ CERCLA requires attainment when relevant and appropriate under the circumstances of the release
- Determination depends on the designated or potential water use, the media affected, the purpose for which the criteria were developed, and current scientific information
- States designate use and promulgate standards (typically NPDES discharge permit levels)
- Use water quality standards rather than water quality criteria

SDWA Drinking Water Standards

- Maximum contaminant levels (MCLs) and non-zero maximum contaminant level goals (MCLGs) are potential ARARs for current or potential drinking water sources
- Consider zero-MCLGs in outside risk range special circumstances
- Secondary MCLs are not ARARs unless promulgated by states

Module Summary

- ARARs= Applicable or relevant and appropriate requirements
- ARARs pertain to any federal law and any state environmental or facility siting law
- Compliance with ARARs does not necessarily ensure protectiveness. ARARs may need to be supplemented to ensure protection
- RCRA is one of the most important and commonly encountered ARARs